Regimen Reference Order

ESOPH – pembrolizumab + CARBOplatin + fluorouracil

ARIA: ESOPH - [pembro + CARBOplatin + 5FU] ESOPH - [pembro q21d (maintenance)] ESOPH - [pembro q42d (maintenance)]

Planned Course:pembrolizumab + CARBOplatin + fluorouracil every 21 days for 6 cycles,
followed by maintenance pembrolizumab:
pembrolizumab every 21 days up to 29 cycles or
until disease progression or unacceptable toxicity
(maximum 2 years of therapy total)
OR
pembrolizumab every 42 days up to 15 cycles or
until disease progression or unacceptable toxicity
(maximum 2 years of therapy total)

Indication for Use: Esophageal/Gastroesophageal Junction Tumor/Gastric Cancer; Metastatic

Drug Alert: Immune Checkpoint Inhibitor (pembrolizumab)

CVAD: Required (Ambulatory Pump)

Proceed with treatment if:

Cycles 1 to 6

- ANC equal to or greater than 1.5×10^9 /L AND Platelets equal to or greater than 100×10^9 /L
- AST/ALT equal to or less than 3 times the upper limit of normal
- Total bilirubin equal to or less than 1.5 times the upper limit of normal
- Creatinine clearance is equal to or greater than 30 mL/minute

pembrolizumab Maintenance

- ANC equal to or greater than 1.5×10^9 /L AND Platelets equal to or greater than 50×10^9 /L
- AST/ALT equal to or less than 3 times the upper limit of normal
- Total bilirubin equal to or less than 1.5 times the upper limit of normal
- Creatinine clearance is equal to or greater than 30 mL/minute
 - Contact Physician if parameters are not met

SEQUENCE OF MEDICATION ADMINISTRATION

Pre-treatment Requirements				
Drug	Dose	CCMB Administration Guideline		
Not Applicable				



Establish primary solution 500 mL of: normal saline			
Drug	Dose	CCMB Administration Guideline	
Cycles 1 to 6 – pem	brolizumab + CARBOplat	tin + fluorouracil	
pembrolizumab	2 mg/kg	IV in normal saline 50 mL over 30 minutes	
		Use 0.2 or 0.22 micron filter	
aprepitant	125 mg	Orally 1 hour pre-chemotherapy	
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy	
dexamethasone	12 mg	Orally 30 minutes pre-chemotherapy	
CARBOplatin	AUC 5 mg/mL.min; maximum dose 750 mg (see table below)	IV in D5W 250 mL over 30 minutes	
fluorouracil	4000 mg/m ²	IV in D5W continuously over 96 hours by ambulatory infusion device	
pembrolizumab Ma	aintenance starts three w	veeks after Cycle 6, Day 1	
pembrolizumab Ma	aintenance (Cycles 1 to 2	9 OR Cycles 1 to 15)	
pembrolizumab	2 mg/kg (every 21 days) OR	IV in normal saline 50 mL over 30 minutes Use 0.2 or 0.22 micron filter	
	4 mg/kg (every 42 days)	IV in normal saline 100 mL over 30 minutes Use 0.2 or 0.22 micron filter	
•	matically rounded that fall v	y 21 days) or 400 mg (every 42 days) vithin CCMB Approved Dose Bands. See Dose Banding document	

In the event of an infusion-related hypersensitivity reaction, refer to the 'Hypersensitivity Reaction Standing Order'

REQUIRED MONITORING

All Cycles

- CBC, serum creatinine, urea, electrolytes, liver enzymes, total bilirubin, albumin and glucose as per Physician Orders
- TSH every 6 weeks as per Physician Orders
- Medical oncologist or designate (i.e. family practitioner in oncology) must assess patient for immune-mediated adverse reactions prior to each cycle
- Full vital signs (temperature, heart rate, respiratory rate, blood pressure and O₂ saturation) at baseline and as clinically indicated
- No observation period is required after pembrolizumab administration. Patient can be discharged from treatment room if stable whether they had a reaction or not



Recommended Support Medications				
Drug	Dose	CCMB Administration Guideline		
pembrolizumab + CARBOplatin + fluorouracil (Cycles 1 to 6)				
aprepitant	80 mg	Orally once daily on Days 2 and 3		
dexamethasone	8 mg	Orally once daily on Days 2 and 3		
metoclopramide	10 – 20 mg	Orally every 4 hours as needed for nausea and vomiting		
pembrolizumab Maintenance				
None required				

DISCHARGE INSTRUCTIONS

All Cycles

- Patients should be instructed to contact their cancer team immediately if symptoms of hypersensitivity reactions occur after discharge
- Confirm that patient has received the CCMB Immune Checkpoint Inhibitor Medical Alert wallet card
- Reinforce to patient the immune-mediated adverse reactions and importance of reporting immediately
 - For severe symptoms, the patient should be instructed to go to the nearest emergency room. Oncologist on call should be contacted

Cycles 1 to 6

- Instruct patient to continue taking anti-emetic(s) at home
- Ensure patient has received a home chemotherapy spill kit and instructions for use
- Reinforce applicable safe handling precautions of medications, blood and body fluids for 48 hours after completion of chemotherapy

ADDITIONAL INFORMATION

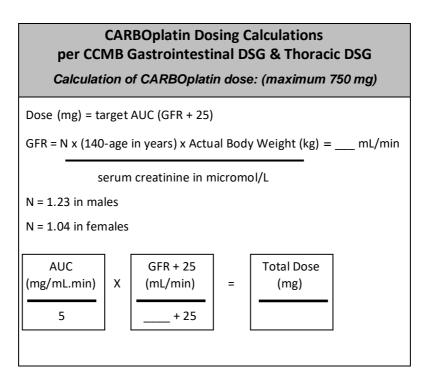
• pembrolizumab is an Immune Checkpoint Inhibitor. Consult with oncologist for immune-mediated adverse reactions; corticosteroids are often indicated

ARIA ordering:

Note: Upon completion of 6 cycles of ESOPH - [pembro + CARBOplatin + 5FU], patients should be started on maintenance treatment with ESOPH - [pembro q21d (maintenance)] or ESOPH - [pembro q42d (maintenance)]

- ESOPH [pembro q21d (maintenance)] or ESOPH [pembro q42d (maintenance)] regimen starts 21 days
- after Cycle 6, Day 1 of ESOPH [pembro + CARBOplatin + 5FU]
- CARBOplatin dose considerations:
 - CCMB Gastrointestinal DSG and Thoracic DSG use **actual body weight** to calculate GFR
 - o CCMB Gastrointestinal DSG and Thoracic DSG use a maximum CARBOplatin dose of 750 mg for this regimen
 - If calculated CARBOplatin dose differs **more than 10%** from prescribed CARBOplatin dose, contact the prescriber





AUC = Area Under Curve

The estimated creatinine clearance is based on limited evidence. Sound clinical judgment and interpretation of the estimation are required, because the equation above may not be appropriate for some patient populations (for example, acute renal failure).

